



Sequence Listing

<110>Siler-Khodr, Theresa M.

<120>Non-Mammalian GnRH Analogs and Uses Thereof in Regulation of Fertility and Pregnancy

<130>P7345.2 (CIP) 6

<140>US 10/820,477

<141>2004-04-08

<150>US 10/639,405

<151> 2003-08-12

<160>16

<210>1

<211>30

<212>DNA

<213>Gallus gallus (Chicken II GnRH)

<400>1

cagcactgggt cccatggctg gtaccctgga 30

<210>2

<211>10

<212>Prt

<213>Unknown (Chicken II GnRH Analog)

<220>

<221>mat\_peptide

<222>Within brain mRNA 121-150, within brain gene 2174-2203.

<223>MOD\_RES substitution of Gly residue at 10 by aza-Gly-NH<sub>2</sub>, ethylamide or other Gly amide. Xaa represents D-Arg, D-Leu, D-tBu-Ser, or D-Trp.

MOD\_RES Glu at position 1 is pyroglutamic acid.

<400>2

Glu His Trp Ser His Xaa Trp Tyr Pro Gly  
5 10

<210>3

<211>30

<212>DNA

<213>Salmo salar (Salmon GnRH)

<400>3

cagcactgggt cttatggctg gctgcctgga 30

<210>4

<211>10

<212>Prt

<213>Unknown (Salmon GnRH Analog)

<220>  
<221>mat\_peptide  
<222>unknown  
<223>MOD\_RES substitution of Gly residue at 10 with aza-Gly-NH2, ethylamide or other Gly amide. Xaa represents D-Arg.  
MOD\_RES Glu at position 1 is pyroglutamic acid.

<400>4  
Glu His Trp Ser Tyr Xaa Trp Leu Pro Gly  
                  5                  10

<210>5  
<211>10  
<212>Prt  
<213>Homo sapiens (Mammalian GnRH)

<220>  
<221>mat\_peptide  
<222>unknown  
<223>MOD\_RES Glu at position 1 is pyroglutamic acid.

<400>5  
Glu His Trp Ser Tyr Gly Leu Arg Pro Gly  
                  5                  10

<210>6  
<211>10  
<212>Prt  
<213>Gallus gallus (Chicken II GnRH)

<220>  
<221>mat\_peptide  
<222>Within brain MRNA 121-150, within brain gene 2174-2203  
<223>MOD\_RES Glu at position 1 is pyroglutamic acid.

<400>6  
Glu His Trp Ser His Gly Trp Tyr Pro Gly  
                  5                  10

<210>7  
<211>10  
<212>Prt  
<213>Salmo salar (Salmon GnRH)

<220>  
<221>mat\_peptide  
<222>unknown  
<223>MOD\_RES Glu at position 1 is pyroglutamic acid

<400>7  
Glu His Trp Ser Tyr Gly Trp Leu Pro Gly  
                  5                  10

<210>8  
<211>30  
<212>RNA  
<213>Gallus gallus (Chicken II GnRH)

<400>8  
gucgugacca ggguaaccgac caugggaccu 30

<210>9  
<211>30  
<212>RNA  
<213>Salmo salar (Salmon GnRH)

<400>9  
gucgugacca gaauaccgac cgacggaccu 30

<210>10  
<211>9  
<212>Prt  
<213>Buserelin

<220>  
<221>mat\_peptide  
<222>unknown  
<223>MOD\_RES Glu at position 1 is pyroglutamic acid. XAA represents D-Ser (t-Bu). MOD\_RES PRO residue at 9 bound to ethylamide.

<400>10  
GLU HIS TRP SER TYR XAA LEU ARG PRO  
5

<210>11  
<211>9  
<212>Prt  
<213>Leuprolide

<220>  
<221>mat\_peptide  
<222>unknown  
<223>MOD\_RES Glu at position 1 is pyroglutamic acid. XAA represents D-Leu. MOD\_RES PRO residue at 9 bound to ethylamide.

<400>11  
GLU HIS TRP SER TYR XAA LEU ARG PRO  
5

<210>12  
<211>10  
<212>Prt  
<213>Antide

<220>  
<221>mat\_peptide  
<222>1,2,3,5,6,8,10  
<223>XAA 1 is Ac-D-NaI, XAA2 is D-Cpa, XAA3 is D-Pal, XAA5 is NicLys, XAA6 is D-NicLys, XAA8 is ILys, XAA10 is D-Ala.

<400>12  
XAA XAA XAA SER XAA XAA LEU XAA PRO XAA  
5 10

<210>13  
<211>10  
<212>Prt  
<213>Gallus gallus (Chicken I GnRH)

<220>  
<221>mat\_peptide  
<222>unknown  
<223>MOD\_RES Glu at position 1 is pyroglutamic acid.

<400>13  
GLU HIS TRP SER TYR GLY LEU GLN PRO GLY  
5 10

<210>14  
<211>10  
<212>Prt  
<213>Lampetra genus (Lamprey GnRH)

<220>  
<221>mat\_peptide  
<222>unknown  
<223>MOD\_RES Glu at position 1 is pyroglutamic acid.

<400>14  
GLU HIS TYR SER LEU GLU TRP LYS PRO GLY  
5 10

<210>15  
<211>30  
<212>DNA  
<213>Clupea harengus (Herring GnRH)

<400>15  
cagcactggg cttatggctg gctgcctgga

<210>16  
<211>10  
<212>PRT  
<213>Clupea harengus (Herring GnRH Analog)

<220>  
<221>mat\_peptide  
<222>unknown  
<223>MOD\_RES substitution of Gly residue at 10 with aza-Gly-NH<sub>2</sub>, ethylamide or other Gly amide. Xaa represents D-Arg. MOD\_RES Glu at position 1 is pyroglutamic acid.

<400>16  
Glu His Trp Ser Tyr Xaa Leu Ser Pro Gly  
5 10